



## SEQUENCE LISTING

<110> Vogels, Ronald  
Havenga, Menzo  
Bout, Abraham

<120> Gene delivery vectors provided with a tissue tropism for smooth muscle cells, and/or endothelial cells

<130> 2183-4231US

<140> US 09/444,284  
<141> 1999-11-19

<150> EP 98203921.6  
<151> 1998-11-20

<160> 24

<170> PatentIn version 3.0

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<213> Adenoviridae

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120

gagagtcccc ctggggtaact ctcttgcgct ctagccaaac ctcttagttac ctccaatggc  
180

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240

caaaaatgtaa ccactgtgag cccacctctc aaaaaaaacca agtcaaacat aaacctggaa  
300

atatctgcac ccctcacagt tacctcagaa gccctaactg tggctgccgc cgcacctcta  
360

atggtcgcgg gcaacacact caccatgcaa tcacaggccc cgctaaccgt gcacgactcc  
420

aaacttagca ttgccaccca aggaccctc acagtgtcag aaggaaagct agccctgcaa  
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acatcaggcc ccctcaccac caccgatagc agtaccctta ctatcactgc ctcacccct  
540

ctaactactg ccactggtag cttggcatt gacttgaaag agcccattha tacacaaaat  
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ggaaaactag gactaaagta cggggctcct ttgcatgtaa cagacgacct aaacactttg  
660

accgtagcaa ctggtccagg tgtgactatt aataatactt cttgcaaac taaagttact  
720

ggagccttgg gtttgattc acaaggcaat atgcaactta atgttagcagg aggactaagg  
780

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840

caactaaatc taagactagg acagggccct cttttataa actcagccca caacttggat  
900

attaactaca acaaaggcct ttacttgttt acagcttcaa acaattccaa aaagcttgag  
960

gttaacctaa gcactgccaa ggggttgatg tttgacgcta cagccatagc cattaatgca  
1020

ggagatggc ttgaatttgg ttcacctaatt gcaccaaaca caaatcccc caaaacaaaa  
1080

attggccatg gcctagaatt tgattcaaac aaggctatgg ttcctaaact aggaactggc  
1140

cttagtttg acagcacagg tgccattaca gtaggaaaca aaaataatga taagctaact  
1200

ttgtggacca caccagctcc atctcctaac tgttagactaa atgcagagaa agatgctaaa  
1260

ctcactttgg tcttaacaaa atgtggcagt caaatacttg ctacagttc agttttggct  
1320

gtttaaggca gtttggctcc aatatctgga acagttcaaa gtgctcatct tattataaga  
1380

tttgacgaaa atggagtgct actaaacaat tccttcctgg acccagaata ttggaacttt  
1440

agaaatggag atcttactga aggcacagcc tatacaaacg ctgttggatt tatgcctaac  
1500

ctatcagctt atccaaaatc tcacggtaaa actgccaaaa gtaacattgt cagtcaagtt  
1560

tacttaaacg gagacaaaaac taaacctgta acactaacca ttacactaaa cggtacacag  
1620

gaaacaggag acacaactcc aagtgcatac tctatgtcat tttcatggga ctggtctggc  
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1740

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<210> 17  
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<223> n can be any nucleotide

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120  
aaaccaccag gtgtatttagc acttaattac aaagaccca ttgtaactga aaatggaacc  
180  
cttacactca agctaggga cggaataaaaa cttaatgccc aaggtcaact tacagctagt  
240  
aataatatca atgttttgg accccttacc aacacctcac aaggtcttaa actttcttgg  
300  
agcgcccccc tagcagtaaa ggctagtgcc ctcacactta acacaagagc gccccttaacc  
360  
acaacggatg aaagcttagc cttaataacc gcccctccca ttacagtaga gtcttcgcgt  
420  
ttgggcttgg ccaccatagc ccctctaagc ttagatggag gtggaaacct aggtttaaat  
480  
cttcctgctc ccctggacgt tagtaacaac aatttgcac tcaccactga aactccctta  
540  
gttgtaaatt ctagcggtgc cctatctgtt gctactgcag accccataag tgttcgcaac  
600  
aacgctctta ccctacctac ggcagatccg ttaatggta gctccgatgg gttggaaata  
660  
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720  
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780  
gacacattga ctgtttccac tggtaacggt cttcaagtgt cggggctctca attagtaaca  
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agaatagggg atggtttaac attcgataat ggggtcatga aagtaaacgt tgccggggga  
900  
atgagaactt ctggcggtag aataattta gatgttaatt atccctttga tgcgagcaat  
960  
aacctgtcct taagacgggg attggacta atttataacc aatctacaaa ctgaaactta  
1020

acaactgata ttagtaccga aaaaggttta atgttttagtg gcaatcaaat agctcttaat  
1080

gcaggtcagg ggcttacatt taataatggc caacttaggg ttaagttggg agctggactt  
1140

attttgatt caaacaataa cattgcctta ggcagcagca gcaacactcc atacgaccct  
1200

ctgacactgt ggacaactcc tgacccacca ccaaactgca gcctcataca agagctagat  
1260

gcaaaactca ccctgtgctt aacaaaaaac ggatctattg ttaatggcat tgtaagttta  
1320

gtgggtgtta agggtaatct cctaaatatc caaagtacta ctaccactgt aggagtgcatt  
1380

ttagtgttg atgaacaggg aagattaatc acatcaaccc ctactgccct gttccccaa  
1440

gcttcgtggg gata>tagaca aggccaatca gtgtctacca atactgttac caatggctca  
1500

gttttatgc ctaatgtgag tgcttaccct agaccaaatg ccagtgaggc taaaagccaa  
1560

atggtaagtc tcacgtactt acagggagat acatctaaac ctataacaat gaaagttgca  
1620

ttaatggca ttacgtcgct aaatggatac tcttaacat tcatgtggc aggtctatca  
1680

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1740

taaatgcatt ag  
1752

<210> 18  
<211> 1071  
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<213> Adenoviridae

<220>  
<221> misc\_feature

<223> /note="Ad5/fib16 chimeric fiber"

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120

agcccagatg gagttctaac tcttaaatgt gttaatccac tcactaccgc cagcggaccc  
180

ctccaactta aagttggaag cagtcttaca gtagatacta tcgatgggtc tttggaggaa  
240

aatataactg ccgaagcgcc actcactaaa actaaccact ccataggttt attaatagga  
300

tctggcttgc aaacaaagga tgataaactt tgtttatcgc tggagatgg gttggtaaca  
360

aaggatgata aactatgtt atcgctggga gatgggttaa taacaaaaaa tgatgtacta  
420

tgtgccaaac taggacatgg ccttgtgtt gactttcca atgctatcac catagaaaac  
480

aacaccttgt ggacaggcgc aaaaccaagc gccaaactgtg taattaaaga gggagaagat  
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tccccagact gtaagctcac tttagttcta gtgaagaatg gaggactgat aaatggatac  
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ataacattaa tgggagcctc agaatatact aacaccttgt taaaaaaca tcaagttaca  
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aaaagtaacc tgaactttaa agacaaccaa aacatggcta ctggaaccat aaccagtgcc  
780

aaaggcttca tgcccagcac caccgcctat ccatttataa catacgccac tgagacccta  
840

aatgaagatt acatttatgg agagtgttac tacaaatcta ccaatggaac tctctttcca  
900

ctaaaaggta ctgtcacact aaacagacgt atgttagctt ctggaatggc ctatgctatg  
960

aattttcat ggtctctaaa tgcagaggaa gccccggaaa ctaccgaagt cactctcatt  
1020

acctccccct tccttttc ttatatcaga gaagatgact gaatgcatta g  
1071

<210> 19  
<211> 1101  
<212> DNA  
<213> Adenoviridae

<220>  
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<223> /note="Ad5/fib28 chimeric fiber"

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120

ggattccaaa acttcccacc tgggttcctg tcactcaaac tggctgaccc aatcaccatc  
180

gctaatgggg atgtctcact caagttggga ggcggactga cggtgaaaaa agagtctgga  
240

aacttaactg tgaaccctaa ggctcccttg caagttgcaa gtggacaatt ggaatttagca  
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tatgattctc catttgcgtgt taaaaacaat atgcttactc ttaaagcagg tcacggctta  
360

gcagttgtaa cgaaagacaa tactgatttca accactaa tggcacact tggtgtttta  
420

actggcaaag gcattggcac tggcacaagt gctcacggtg gaaccataga tgtgagaata  
480

ggaaaaaaacg gaagtctggc atttgacaaa aatggagatt tggtggcctg ggataaagaa  
540

aatgacaggc gcactctatg gacaactcca gacacatctc caaattgcaa aatgagtcaa  
600

gtcaaagact caaagcttac tcttattctt acaaaatgcg gaagtcaa at tcttaggaagt  
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gtatcttgc ttgctgtaaa aggagaatat caaaatatga ctgccagta taataagaat  
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gtaaaaataa cactgctatt tgatgcta at ggagtcttgt tagaaggatc cagtcttgat  
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aaagagtact ggaactttag aaacaatgat tctactgtgt ctggaaaata tgaaaatgct  
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gttccgttca tgccta acat aacagctt aaccgtca attctaaa ag ctatgccaga  
900

agtacatat ttggaaatgt atatattgct gctaagccat ata atccagt gtttattaaa  
960

at tagcttca atcaagagac acaaaacaat tgtgtctt cttatcatt tgactacact  
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1080

gcccaagaat gaatgcatta g  
1101

<210> 20  
<211> 1668  
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<220>  
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<222> (1588)..(1588)  
<223> n can be any nucleotide

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120  
  
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180  
  
aaaaacgggg cttaacctt aaaattgggc acgggactaa acattgataa aaatggagat  
240  
  
ctttcttcag atgctagcgt ggaagttgc gcccstatca ctaaaaccaa caaaatcgta  
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360  
  
gcgccttta acgttagtaaa taataattta gctctaaata tgtcacagcc tgttactatt  
420  
  
aatgcaaaca acgaactttc tctctaata gacgccccac ttaatgctga cacggcact  
480  
  
cttcgccttc gaagtgatgc acctcttggc ctagtagaca aaacactaaa ggttttgttt  
540  
  
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aacttaaccc taagcacagg cggacctttt actgtaagcg gggaaattt aaacctggca  
720  
  
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780  
  
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840  
  
aagttaataa tcaatcttgg tccaggtta caaatgtcta atggagctat tacttttagca  
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ctagatgcag cgctgccttt gcaatataaa aacaaccaac ttcaactcag aattggctcc  
960

gcgtctgctt taattatgag cgagtaaca caaacattaa acgtcaatgc caataccagg  
1020  
aaaggtcttg ctattgaaaa taactcacta gttgttaagc taggaaacgg tcttcgcttt  
1080  
gatagctggg gaagcatagc tgtctcacct actaccacta cccctaccac cctatggacc  
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accgcggacc cgtctcctaa cgccactttt tatgaatcac tagacgccaa agtgtggcta  
1200  
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1260  
actttactta aacccacagc tagcttatt tccttgcgtca tgtattttta cagcgacgga  
1320  
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1380  
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1440  
cctagctcta aaaggtatcc caatgaaaaa gttctgaag ttcagaacat ggctcttacc  
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1560  
gcaatagaag gctactcatt aaaattcncc tggcggttc gaaataatga acgtttgac  
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1668

<210> 21  
<211> 1062  
<212> DNA  
<213> Adenoviridae  
  
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<223> /note="Adenovirus16 fiber sequence"

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120  
  
agcccagatg gagttctaac tcttaaatgt gttaatccac tcactaccgc cagcggaccc  
180  
  
ctccaactta aagttggaag cagtcttaca gtagatacta tcgatgggtc tttggaggaa  
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aatataactg ccgcagcgcc actcactaaa actaaccact ccataggttt attaatagga  
300  
  
tctggcttgc aaacaaagga tgataaaactt tgtttatcgc tgggagatgg gttggtaaca  
360  
  
aaggatgata aactatgttt atcgctggta gatgggttaa taacaaaaaa tggatgtacta  
420  
  
tgtgccaaac taggacatgg cttgtgttt gactcttcca atgctatcac catagaaaac  
480  
  
aacaccccttggacaggcgc aaaaccaaggc gccaaactgtg taattaaaga gggagaagat  
540  
  
tccccagact gtaagctcac tttagttcta gtgaagaatg gaggactgat aaatggatac  
600  
  
ataacattaa tgggagcctc agaatatact aacaccccttggtaaaaaacaa tcaagttaca  
660  
  
atcgatgtaa acctcgcat ttgataatact ggccaaatta ttacttacct atcatccctt  
720  
  
aaaagtaacc tgaactttaa agacaaccaa aacatggcta ctggaaccat aaccagtgcc  
780  
  
aaaggcttca tgcccagcac caccgcctat ccattataa catacgccac tgagacccta  
840  
  
aatgaagatt acatTTATGG agagtgttac tacaaatcta ccaatggaac tctctttcca  
900  
  
ctaaaagtta ctgtcacact aaacagacgt atgttagctt ctggaatggc ctatgctatg  
960

aattttcat ggtctctaaa tgcagaggaa gccccggaaa ctaccgaat cactctcatt  
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1062

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<211> 1074  
<212> DNA  
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atgttgtgc agatgaagcg cgcaagaccg tctgaagata cttcaaccc cgtgttatcca  
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tatgaagatg aaagcagctc acaacacccc tttataaacc ctggtttcat ttcctcaaat  
120

ggttttgcac aaagcccaga tggagttcta actcttaaat gtgttaatcc actcactacc  
180

gccagcggac ccctccaact taaagttgga agcagtctt a ctagatac tatcgatgg  
240

tctttggagg aaaatataac tgccgaagcg ccactcacta aaactaacca ctccataggt  
300

ttattaatag gatctggctt gcaaacaag gatgataaac ttgtttatc gctggagat  
360

gggttggtaa caaaggatga taaactatgt ttatcgctgg gagatgggtt aataacaaaa  
420

aatgatgtac tatgtgccaa actaggacat ggccttgtgt ttgacttttc caatgctatc  
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accatagaaa acaacaccc ttgtggacaggc gcaaaaccaa ggcggcaactg tgtatattaaa  
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gagggagaag attccccaga ctgttaagctc acttttagttc tagtgaagaa tggaggactg  
600

Sequence.ST25

ataaatggat acataaacatt aatgggagcc tcagaatata ctaacacctt gtttaaaaac  
660

aatcaagtta caatcgatgt aaacctcgca tttgataata ctggccaaat tattacttac  
720

ctatcatccc ttaaaagtaa cctgaacttt aaagacaacc aaaacatggc tactggaacc  
780

ataaccagtg ccaaaggctt catgcccagc accaccgcct atccatttat aacatacgcc  
840

actgagaccc taaatgaaga ttacatttat ggagagtgtt actacaaatc taccaatgga  
900

actctcttc cactaaaagt tactgtcaca ctaaacagac gtatgttagc ttctggaatg  
960

gcctatgcta tgaatttttc atggctctca aatgcagagg aagccccgga aactaccgaa  
1020

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1074

<210> 23

<211> 353

<212> PRT

<213> Adenoviridae

<220>

<221> misc\_feature

<223> /note="Adenovirus16 fiber protein sequence"

<400> 23

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Tyr Glu Asp Glu Ser Ser Ser Gln His Pro Phe Ile Asn Pro Gly Phe  
20 25 30

Ile Ser Ser Asn Gly Phe Ala Gln Ser Pro Asp Gly Val Leu Thr Leu  
35 40 45

Lys Cys Val Asn Pro Leu Thr Thr Ala Ser Gly Pro Leu Gln Leu Lys

50	55	60	
Val Gly Ser Ser Leu Thr Val Asp Thr Ile Asp Gly Ser Leu Glu Glu			
65	70	75	80
Asn Ile Thr Ala Ala Ala Pro Leu Thr Lys Thr Asn His Ser Ile Gly			
85	90	95	
Leu Leu Ile Gly Ser Gly Leu Gln Thr Lys Asp Asp Lys Leu Cys Leu			
100	105	110	
Ser Leu Gly Asp Gly Leu Val Thr Lys Asp Asp Lys Leu Cys Leu Ser			
115	120	125	
Leu Gly Asp Gly Leu Ile Thr Lys Asn Asp Val Leu Cys Ala Lys Leu			
130	135	140	
Gly His Gly Leu Val Phe Asp Ser Ser Asn Ala Ile Thr Ile Glu Asn			
145	150	155	160
Asn Thr Leu Trp Thr Gly Ala Lys Pro Ser Ala Asn Cys Val Ile Lys			
165	170	175	
Glu Gly Glu Asp Ser Pro Asp Cys Lys Leu Thr Leu Val Leu Val Lys			
180	185	190	
Asn Gly Gly Leu Ile Asn Gly Tyr Ile Thr Leu Met Gly Ala Ser Glu			
195	200	205	
Tyr Thr Asn Thr Leu Phe Lys Asn Asn Gln Val Thr Ile Asp Val Asn			
210	215	220	
Leu Ala Phe Asp Asn Thr Gly Gln Ile Ile Thr Tyr Leu Ser Ser Leu			
225	230	235	240
Lys Ser Asn Leu Asn Phe Lys Asp Asn Gln Asn Met Ala Thr Gly Thr			
245	250	255	
Ile Thr Ser Ala Lys Gly Phe Met Pro Ser Thr Thr Ala Tyr Pro Phe			
260	265	270	
Ile Thr Tyr Ala Thr Glu Thr Leu Asn Glu Asp Tyr Ile Tyr Gly Glu			
275	280	285	
Cys Tyr Tyr Lys Ser Thr Asn Gly Thr Leu Phe Pro Leu Lys Val Thr			
290	295	300	
Val Thr Leu Asn Arg Arg Met Leu Ala Ser Gly Met Ala Tyr Ala Met			

305	310	315	320
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Asn	Phe	Ser	Trp	Ser	Leu	Asn	Ala	Glu	Glu	Ala	Pro	Glu	Thr	Thr	Glu
						325									335

Val	Thr	Leu	Ile	Thr	Ser	Pro	Phe	Phe	Phe	Ser	Tyr	Ile	Arg	Glu	Asp
												340		345	350

Asp

<210> 24  
<211> 353  
<212> PRT  
<213> Adenoviridae

<220>  
<221> misc\_feature  
<223> /note="Adenovirus16A fiber protein sequence"

<400> 24

Met	Lys	Arg	Ala	Arg	Pro	Ser	Glu	Asp	Thr	Phe	Asn	Pro	Val	Tyr	Pro
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Tyr	Glu	Asp	Glu	Ser	Ser	Ser	Gln	His	Pro	Phe	Ile	Asn	Pro	Gly	Phe
									25					30	

Ile	Ser	Ser	Asn	Gly	Phe	Ala	Gln	Ser	Pro	Asp	Gly	Val	Leu	Thr	Leu
								35				40		45	

Lys	Cys	Val	Asn	Pro	Leu	Thr	Thr	Ala	Ser	Gly	Pro	Leu	Gln	Leu	Lys
								50			55		60		

Val	Gly	Ser	Ser	Leu	Thr	Val	Asp	Thr	Ile	Asp	Gly	Ser	Leu	Glu	Glu
								65			70		75	80	

Asn	Ile	Thr	Ala	Glu	Ala	Pro	Leu	Thr	Lys	Thr	Asn	His	Ser	Ile	Gly
								85			90			95	

Leu	Leu	Ile	Gly	Ser	Gly	Leu	Gln	Thr	Lys	Asp	Asp	Lys	Leu	Cys	Leu
								100			105		110		

Ser	Leu	Gly	Asp	Gly	Leu	Val	Thr	Lys	Asp	Asp	Lys	Leu	Cys	Leu	Ser
								115			120		125		

Leu Gly Asp Gly Leu Ile Thr Lys Asn Asp Val Leu Cys Ala Lys Leu

130	135	140
Gly His Gly Leu Val Phe Asp Ser Ser Asn Ala Ile Thr Ile Glu Asn		
145	150	155
Asn Thr Leu Trp Thr Gly Ala Lys Pro Ser Ala Asn Cys Val Ile Lys		
165	170	175
Glu Gly Glu Asp Ser Pro Asp Cys Lys Leu Thr Leu Val Leu Val Lys		
180	185	190
Asn Gly Gly Leu Ile Asn Gly Tyr Ile Thr Leu Met Gly Ala Ser Glu		
195	200	205
Tyr Thr Asn Thr Leu Phe Lys Asn Asn Gln Val Thr Ile Asp Val Asn		
210	215	220
Leu Ala Phe Asp Asn Thr Gly Gln Ile Ile Thr Tyr Leu Ser Ser Leu		
225	230	235
Lys Ser Asn Leu Asn Phe Lys Asp Asn Gln Asn Met Ala Thr Gly Thr		
245	250	255
Ile Thr Ser Ala Lys Gly Phe Met Pro Ser Thr Thr Ala Tyr Pro Phe		
260	265	270
Ile Thr Tyr Ala Thr Glu Thr Leu Asn Glu Asp Tyr Ile Tyr Gly Glu		
275	280	285
Cys Tyr Tyr Lys Ser Thr Asn Gly Thr Leu Phe Pro Leu Lys Val Thr		
290	295	300
Val Thr Leu Asn Arg Arg Met Leu Ala Ser Gly Met Ala Tyr Ala Met		
305	310	315
Asn Phe Ser Trp Ser Leu Asn Ala Glu Glu Ala Pro Glu Thr Thr Glu		
325	330	335
Val Thr Leu Ile Thr Ser Pro Phe Phe Ser Tyr Ile Arg Glu Asp		
340	345	350
Asp		